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SCHEMATIC REPRESENTATION FOR EPITOPE EVOLUTION

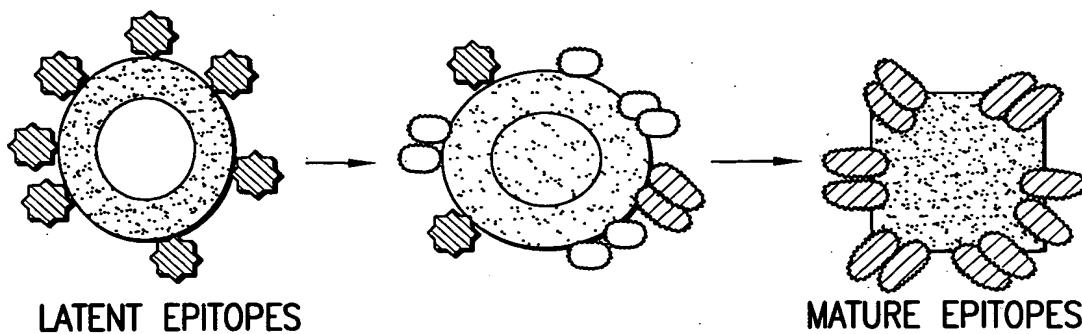


FIG.1A

CHEMICAL CONVERSION - INTERCHAIN DISULFIDE BOND CROSS-LINKING

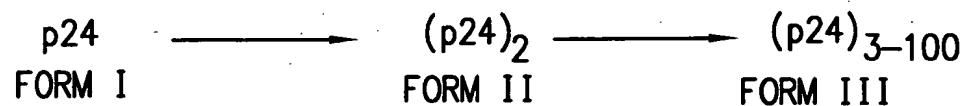


FIG.1B



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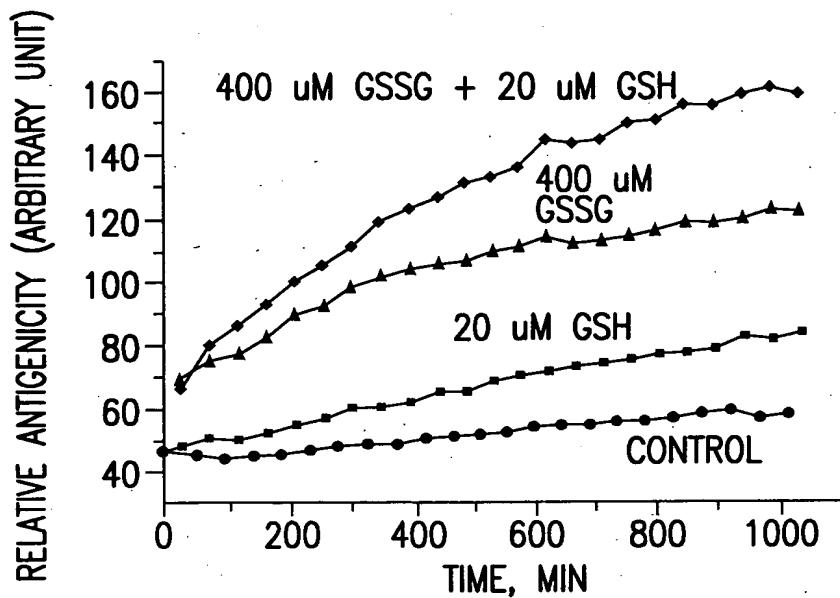


FIG.2A

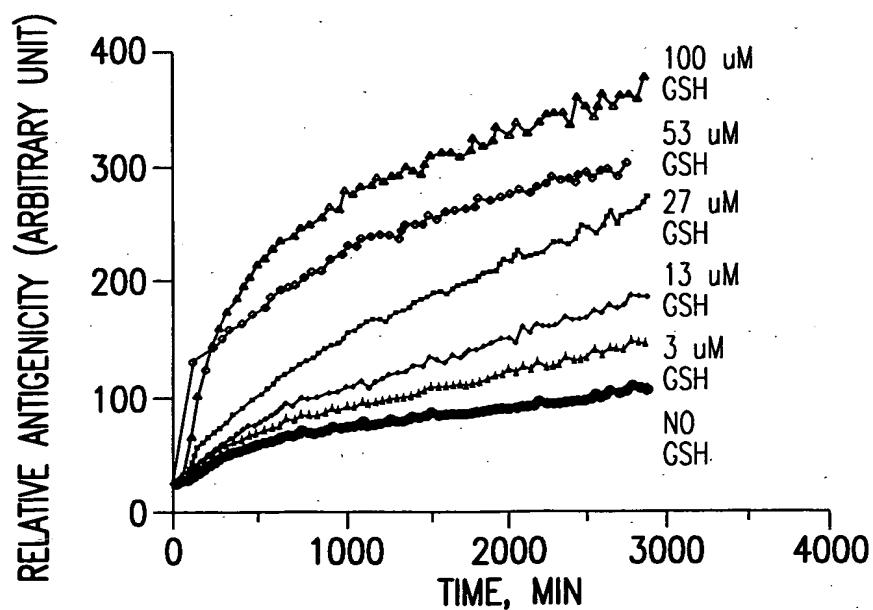


FIG.2B



W<sub>k</sub> GENE REGION SEQUENCE COMPARISONS

A1.2 **REF** **S** **S** **S** **C** **I** **S** **Y** **S** **I** **I** **S** **R** **M** **E** **A** **F** **D** **A** **A** **T** **Y** **C** **O** **R** **W** **S** **I** **Y** **P** **P** **I** **I** **F** **G** **G** **I** **K** **|** **E** **|** **K** **R** **A** **D** **A** **A** **P** **T** **V** **S** **|** **100** **90** **80** **70** **110** **100** **118**

190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350

ODR 3 **Jk**

FIG. 3A



## V<sub>H</sub> GENE REGION SEQUENCE COMPARISONS OF ANTI-HBS

1 D V H L Q E S C P E L V K P G A S V K I S C K A S C Y S F I D H Y I N W V K Q K P G Q G L E W I G C F F P G S C N S K Y C 50 55 520

CDR 3

D

JH

190 — 200 — 210 — 220 — 230 — 240 — 250 — 260 — 270 — 280 — 290 — 300 — 310 — 320 — 330 — 340 — 350 — 360

A1.2 ATGCAACCTAGGGCAAGCCACATTTGACACTGACACATCTCCGATACCCATAGGCTCACCTGAGCTACATCTGAGGACTCTGCTGATTCATGGAAAGATGATCCCACCGA\*\*\*\*\*GGTATGGACTACTGGGTAGGGTCAAGGACCTCAGTCACC

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FIG. 3B



## DAY 1            PRE-TREAT STANDARD AND SAMPLES - SECTION III.A.

DISPENSE 200  $\mu$ L OF EACH TREATED STANDARD  
OR SAMPLE DILUTION INTO WELLS

DISPENSE 200  $\mu$ L OF THE DILUENT CONTROL AND  
THE KIT CONTROLS INTO REPLICATE WELLS

ADD 50  $\mu$ L OF CONJUGATE TO WELLS

TAP TRAY GENTLY TO MIX

ADD ONE BEAD TO EACH TEST WELL

INCUBATE TRAYS FOR 12-20 HOURS AT 20-28°C

DAY 2            WASH BEADS 1 CYCLE WITH  $14 \pm 3$  mL DISTILLED WATER

TRANSFER BEADS TO TUBES

ADD 300  $\mu$ L OF OPD SUBSTRATE SOLUTION

INCUBATE 30 TO 35 MINUTES AT 20-28°C IN THE DARK

ADD 1 mL OF 1N SULFURIC ACID TO EACH TUBE

READ TUBES IN QUANTUMATIC™ WITHIN 2 HOURS

-READ KIT CONTROLS BLANKED ON SUBSTRATE.

-READ STANDARDS AND TEST BLANKED ON SAMPLE DILUENT.

FIG.4

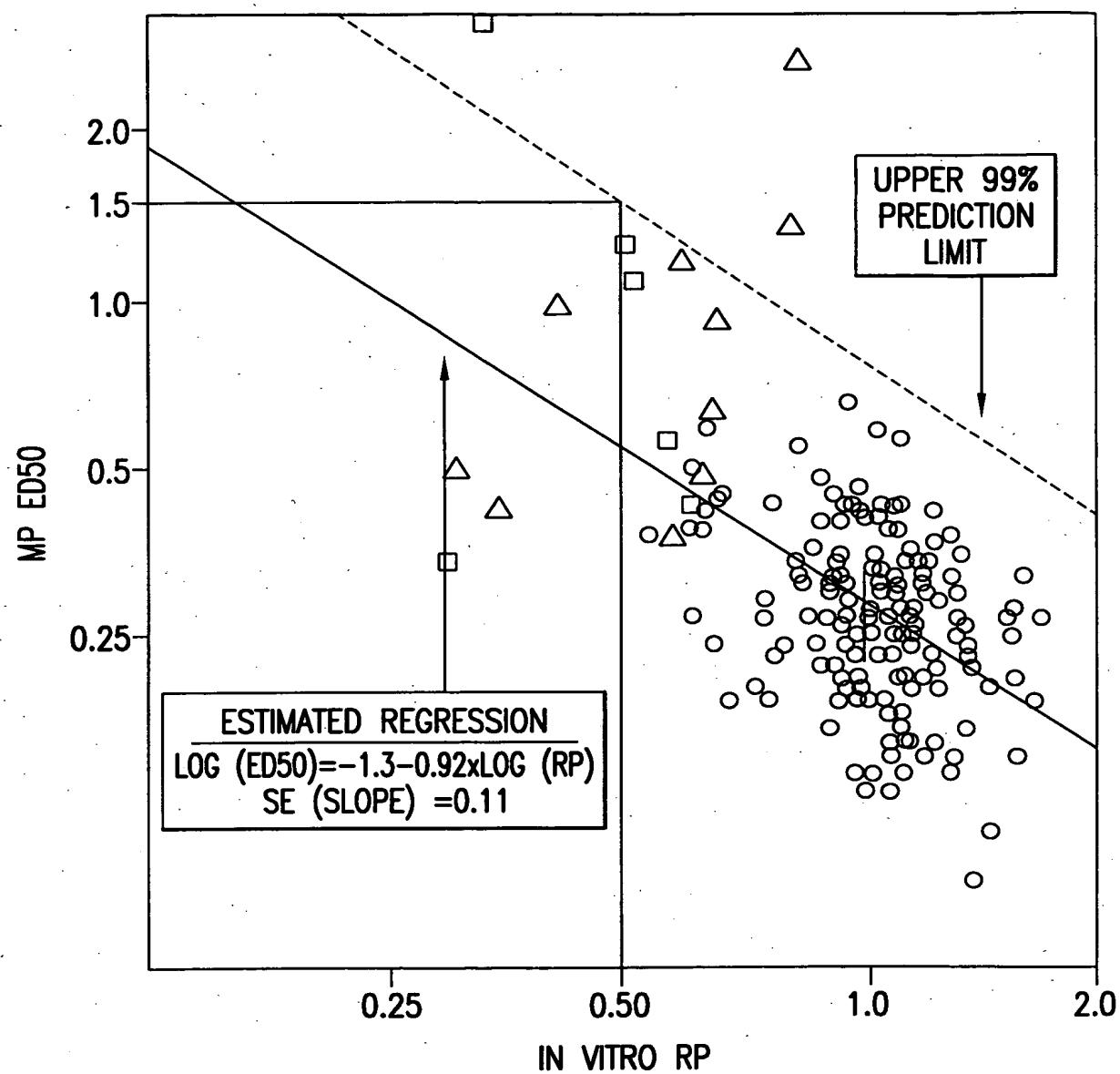


FIG.5



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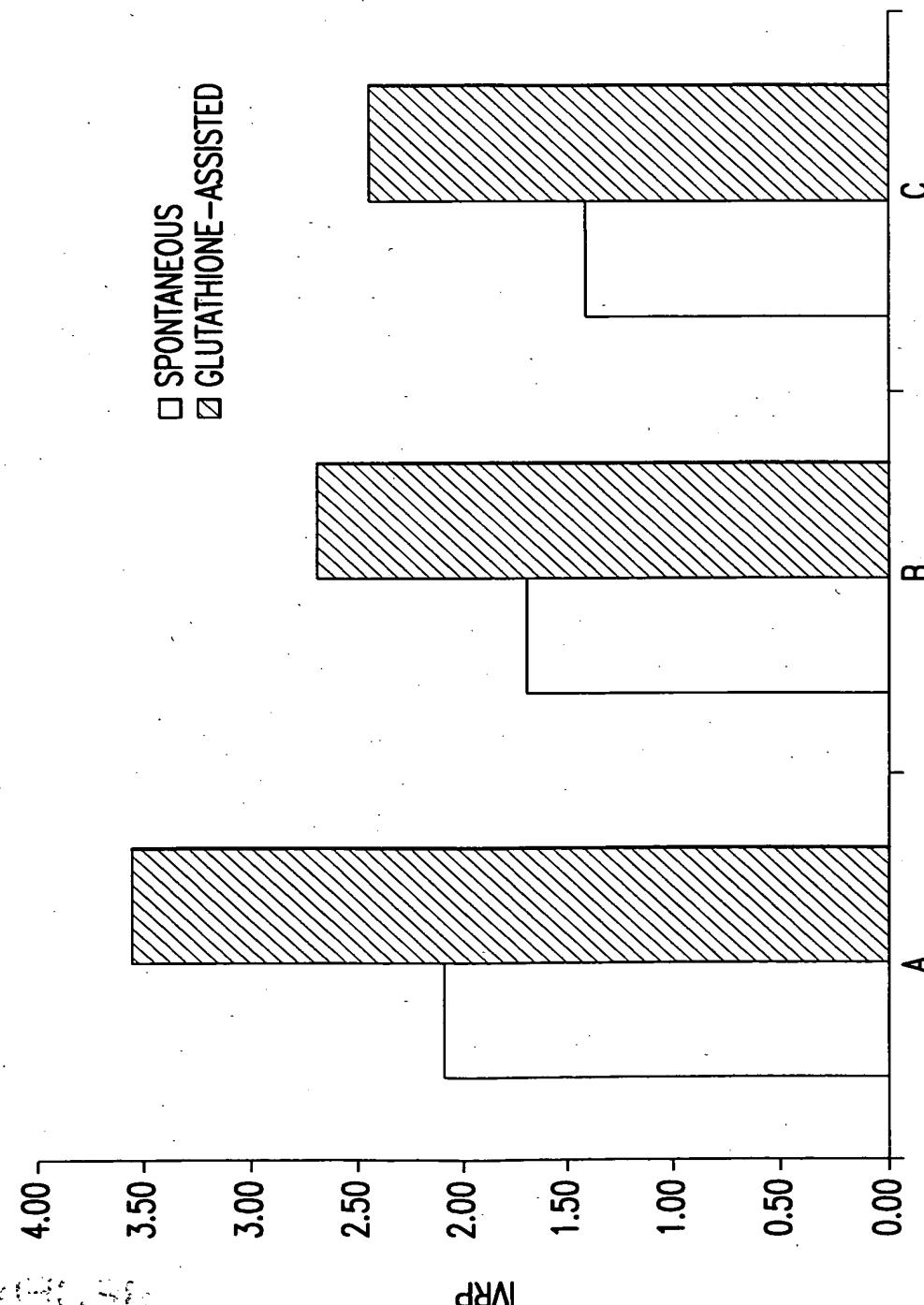


FIG. 6

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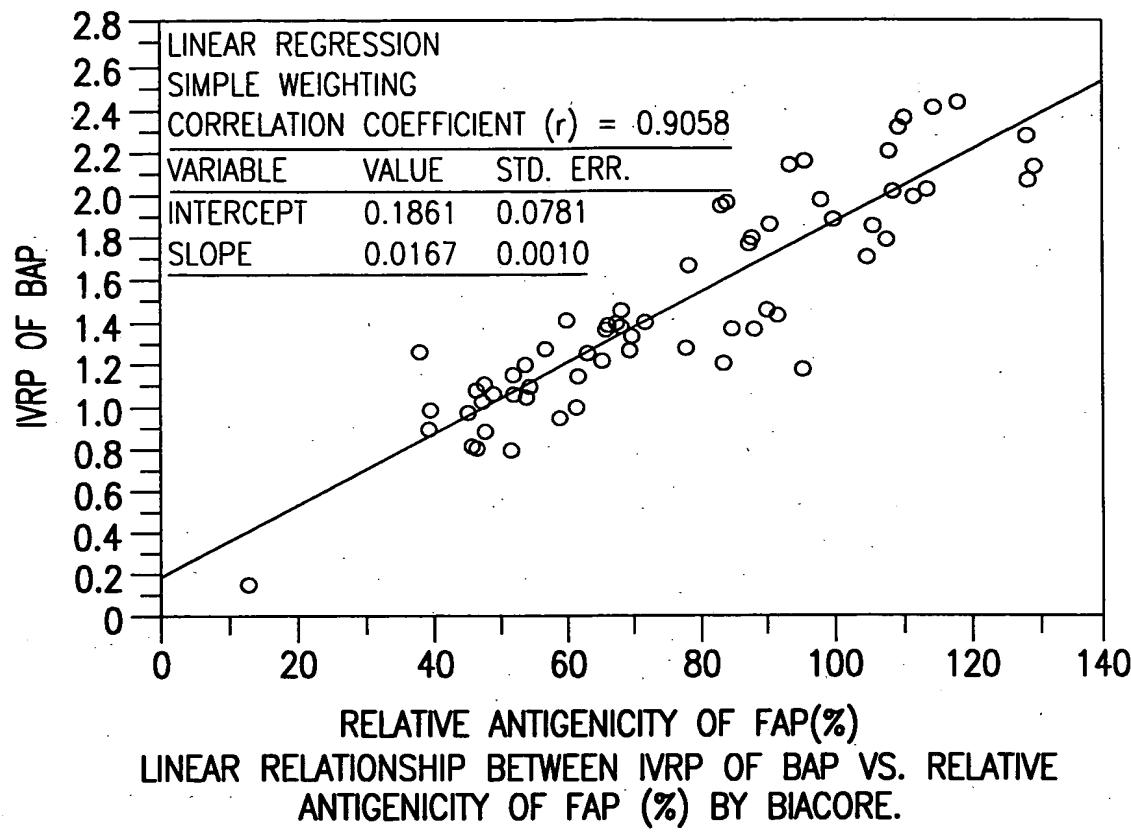


FIG.7

SEARCHED  
SERIALIZED  
INDEXED  
FILED  
SEARCHED  
SERIALIZED  
INDEXED  
FILED